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APPLICATION NO.	F	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/645,825	10/645,825 08/21/2003		Matthew F. Bone	0011-057	7658
40972	7590	12/14/2004		EXAM	INER
HENNEM	AN & SA	UNDERS	NGUYEN, DUNG T		
714 WEST	MICHIGA	N AVENUE			
THREE RIVERS, MI 49093				ART UNIT	PAPER NUMBER
				2071	· · · · · · · · · · · · · · · · ·

DATE MAILED: 12/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
	000 4 4 0	10/645,825	BONE, MATTHEW F.				
	Office Action Summary	Examiner	Art Unit				
		Dung Nguyen	2871				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - External control	HORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNIC, ensions of time may be available under the provisions of r SIX (6) MONTHS from the mailing date of this communic e period for reply specified above is less than thirty (30) of period for reply is specified above, the maximum staturure to reply within the set or extended period for reply will reply received by the Office later than three months aftended patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no event, however, may a nication. days, a reply within the statutory minimum of thitory period will apply and will expire SIX (6) MOIII, by statute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status	·						
1)[Responsive to communication(s) filed	on					
	•)⊠ This action is non-final.	•				
3)	·_						
/	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	tion of Claims						
5)□ 6)⊠ 7)□	Claim(s) 1-28 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-28 is/are rejected. Claim(s) is/are objected to. Claim(s) is/are subject to restriction and/or election requirement.						
Applicat	tion Papers						
10)⊠	The specification is objected to by the In The drawing(s) filed on <u>21 August 2003</u> . Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to be	3 is/are: a)⊠ accepted or b)⊡ ole on to the drawing(s) be held in abeyane correction is required if the drawing	nce. See 37 CFR 1.85(a). i(s) is objected to. See 37 CFR 1.121(d).				
Priority	under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of application from the International See the attached detailed Office action to	ocuments have been received. Ocuments have been received in A the priority documents have been al Bureau (PCT Rule 17.2(a)).	Application No received in this National Stage				
Attachma-	**(c)						
Attachmen 1) Notice	n(s) ce of References Cited (PTO-892)	4) Intensions	Summary (PTO-413)				
2) 🔲 Notic	ce of Draftsperson's Patent Drawing Review (PTC)-948) Paper No(s)/Mail Date				
3) 🔲 Infor Pape	mation Disclosure Statement(s) (PTO-1449 or PT er No(s)/Mail Date	O/SB/08) 5) Notice of I 6) Other:	nformal Patent Application (PTO-152)				

Art Unit: 2871

DETAILED ACTION

Specification

1. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-6, 9-11, 13-28 are rejected under 35 U.S.C 102(e) as being anticipated by Aruga, US Patent Number 4,904,061.

The above claims are anticipated by Aruga's figures 2-4 and 8 and accompanying text which disclose a video display apparatus (e.g., projection-type liquid crystal display (LCD) device) comprising a three LCD panel (three LCD light-valve red/green/blue), wherein one of the three display panel (e.g., green light-valve) has an aspect (e.g., buff relationship, twist direction) which is generally the mirror image of the similar aspect of the other two display panel as claimed (see col. 2, lines 52-55; col. 5, lines 5-9, lines 14-20; col. 6, lines 4-9).

Application/Control Number: 10/645,825

Art Unit: 2871

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-6, 9-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aoki, US Patent No. 6,409,348, in view of Aruga, US Patent Number 4,904,061.

Regarding the above claims, Aoki disclose a video display apparatus (LCD projector) having three light-valves (300B, 300G and 300R) as first, second and third display panels. Aoki also disclose those three display panels can be a reflective type LCD (see col. 9, lines 30-35).

Aoki, however, does not disclose those three LCD panels having relative aspect as claimed. Aruga does disclose a projector having three light-valves related to each other (buff direction, twist angle) as shown in figures 2-4 and 8. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the Aoki's projector having those three related display panels as shown by Aruga in order to improve a projector image (see col. 3, lines 21-25).

6. Claims 7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aruga, US Patent Number 4,904,061.

Regarding claims 7 and 8, Aruga discloses the claimed invention as described above except for a polyimide layer. It would have been obvious to one skilled in the art at the time of the invention was made to employ an alignment layer (i.e., buff layer) by a polyimide based

Art Unit: 2871

material for the rubbing alignment, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung Nguyen whose telephone number is 571-272-2297. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DN 12/12/2004

Dung Nguyen
Primary Examiner
Art Unit 2871